

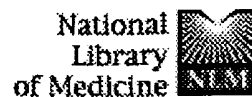
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| <input type="checkbox"/> | L10   | L9 AND semaphorin 6A-1  | 1                |
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| <input type="checkbox"/> | L6  | Klostermann-Andreas.IN. | 0                |
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| <input type="checkbox"/> | L1  | (Behl.IN.)              | 376              |

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J Biol Chem. 2000 Dec 15;275(50):39647-53.

PMID: 10993894 [PubMed - indexed for MEDLINE]

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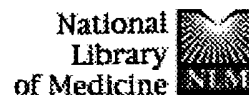
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The orthologous human and murine semaphorin 6A-1 proteins (SEMA6A-1/Sema6A-1) bind to the enabled/vasodilator-stimulated phosphoprotein-like protein (EVL) via a novel carboxyl-terminal zyxin-like domain.

J Biol Chem. 2000 Dec 15;275(50):39647-53.

PMID: 10993894 [PubMed - indexed for MEDLINE]

☐ 2: [Xu XM, Fisher DA, Zhou L, White FA, Ng S, Snider WD, Luo Y.](#)

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The transmembrane protein semaphorin 6A repels embryonic sympathetic axons.

J Neurosci. 2000 Apr 1;20(7):2638-48.

PMID: 10729344 [PubMed - indexed for MEDLINE]

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65 FILES SEARCHED...  
L1 27 SEMAPHORIN 6A-1

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L2 16 DUP REM L1 (11 DUPLICATES REMOVED)

=> D L2 1-16

L2 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1  
AN 2004:119870 CAPLUS  
DN 140:158649  
TI Sequence homologs of signaling and adhesion proteins from human with  
possible therapeutic uses and cDNAs encoding them  
IN Alsobrook, John; Anderson, David; Boldog, Ferenc; Burgess, Catherine;  
Casman, Stacie; Edinger, Shlomit R.; Gerlach, Valerie; Grosse, William;  
Guo, Xiaojia; Gusev, Vladimir; Ji, Weizhen; Larochelle, William; Lepley,  
Denise; Li, Li; Liu, Xiaohong; MacDougall, John R.; Malyankar, Uriel M.;  
Millet, Isabelle; Padigar, Muralidhara; Patturajan, Meera; Peyman, John  
A.; Rastelli, Luca; Rieger, Daniel; Rothenberg, Mark E.; Shimkets,  
Richard; Stone, David J.; Taupier, Raymond; Vernet, Corine; Zerhusen,  
Bryan  
PA USA  
SO U.S. Pat. Appl. Publ., 199 pp., Cont.-in-part of U.S. Ser. No. 520,781.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 139

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
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|      | WO 2003085096   | A2   | 20031016 | WO 2003-US9929  | 20030401 |
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|      | US 2000-520781  | A2   | 20000308 |                 |          |
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|      | US 2002-384798P   | P    | 20020530 |                 |          |
|      | US 2002-386816P   | P    | 20020607 |                 |          |
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|      | US 2003-443062P   | P    | 20030128 |                 |          |
|      | US 2003-403676  | A2   | 20030331 |                 |          |

L2 ANSWER 2 OF 16 USPATFULL on STN  
AN 2004:25135 USPATFULL  
TI semaphorin-like proteins and methods of using same  
IN Alvarez, Enrique, Clinton, CT, UNITED STATES

Anderson, David W., Plantsville, CT, UNITED STATES  
Dhanabal, Mohanraj, Branford, CT, UNITED STATES  
Khramtsov, Nikolai V., Branford, CT, UNITED STATES  
LaRochele, William J., Madison, CT, UNITED STATES  
Lichenstein, Henri S., Guilford, CT, UNITED STATES  
Li, Li, Branford, CT, UNITED STATES  
Ooi, Chean Eng, Branford, CT, UNITED STATES  
Padigaru, Muralidhara, Branford, CT, UNITED STATES  
Shimkets, Richard A., Guilford, CT, UNITED STATES  
Zhong, Mei, Branford, CT, UNITED STATES

PI US 2004018977 A1 20040129  
AI US 2003-449548 A1 20030530 (10)  
RLI Continuation-in-part of Ser. No. US 2000-520781, filed on 8 Mar 2000,  
PENDING Continuation-in-part of Ser. No. US 2003-403676, filed on 31 Mar  
2003, PENDING  
PRAI US 1999-123667P 19990309 (60)  
US 2002-371002P 20020409 (60)  
US 2002-384798P 20020530 (60)  
US 2002-402407P 20020809 (60)  
US 2003-443062P 20030128 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 12402  
INCL INCLM: 514/012.000  
INCLS: 435/366.000; 435/372.000; 514/044.000  
NCL NCLM: 514/012.000  
NCLS: 435/366.000; 435/372.000; 514/044.000  
IC [7]  
ICM: A61K038-17  
ICS: A61K048-00; C12N005-08  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2  
AN 2003:972338 CAPLUS  
DN 140:35905  
TI Semaphorin-like proteins (NOV2) and cDNA sequences and methods of using  
same for modulating angiogenesis, cell motility, and actin filament  
formation  
IN Alvarez, Enrique; Anderson, David W.; Dhanabal, Mohanraj; Khramtsov,  
Nikolai V.; LaRochele, William J.; Lichenstein, Henri S.; Li, Li; Ooi,  
Chean Eng; Padigaru, Muralidhara; Shimkets, Richard A.; Zhong, Mei  
PA Curagen Corporation, USA; Li, Li; et al.  
SO PCT Int. Appl., 197 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 139

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|      | US 2000-520781  | A2   | 20000308 |                 |          |

L2 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3  
AN 2003:818529 CAPLUS  
DN 139:318454  
TI Human cDNA sequences and their encoded proteins and diagnostic and  
therapeutic uses  
IN Alsobrook, John P., II; Anderson, David W.; Boldog, Ferenc L.; Burgess,



Catherine E.; Casman, Stacie J.; Edinger, Shlomit R.; Gerlach, Valerie L.;  
Grosse, William M.

PA Curagen Corporation, USA

SO PCT Int. Appl., 324 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 139

|      | PATENT NO.      | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|--|----------|-----------------|----------|
| PI   | WO 2003085096   | A2   | 20031016 | WO 2003-US9929  | 20030401 |
|      | W:              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |          |
|      | RW:             | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |
|      | US 2003207394   | A1   | 20031106 | US 2002-190115  | 20020703 |
|      | US 2004029150   | A1   | 20040212 | US 2003-403676  | 20030331 |
| PRAI | US 2002-368996P | P  | 20020401 |                 |          |
|      | US 2002-369980P | P  | 20020404 |                 |          |
|      | US 2002-370381P | P  | 20020405 |                 |          |
|      | US 2002-370969P | P  | 20020408 |                 |          |
|      | US 2002-371002P | P  | 20020409 |                 |          |
|      | US 2002-372002P | P  | 20020412 |                 |          |
|      | US 2002-384297P | P  | 20020530 |                 |          |
|      | US 2002-386816P | P  | 20020607 |                 |          |
|      | US 2002-389123P | P  | 20020613 |                 |          |
|      | US 2002-402207P | P  | 20020809 |                 |          |
|      | US 2002-420860P | P  | 20021024 |                 |          |
|      | US 2003-403676  | A2   | 20030331 |                 |          |
|      | US 1999-123667P | P  | 19990309 |                 |          |
|      | US 2000-520781  | A2   | 20000308 |                 |          |
|      | US 2000-215854P | P  | 20000703 |                 |          |
|      | US 2000-215856P | P  | 20000703 |                 |          |
|      | US 2000-215902P | P  | 20000703 |                 |          |
|      | US 2000-216585P | P  | 20000707 |                 |          |
|      | US 2000-216586P | P  | 20000707 |                 |          |
|      | US 2000-216722P | P  | 20000707 |                 |          |
|      | US 2000-218622P | P  | 20000717 |                 |          |
|      | US 2000-218992P | P  | 20000717 |                 |          |
|      | US 2000-221285P | P  | 20000727 |                 |          |
|      | US 2001-268734P | P  | 20010214 |                 |          |
|      | US 2001-274260P | P  | 20010308 |                 |          |
|      | US 2001-279856P | P  | 20010329 |                 |          |
|      | US 2001-898994  | A1   | 20010703 |                 |          |
|      | US 2001-303168P | P  | 20010705 |                 |          |

L2 ANSWER 5 OF 16 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2002:139322 BIOSIS

DN PREV200200139322

TI Doing (F/L)PPPPs: EVH1 domains and their proline-rich partners in cell polarity and migration.

AU Renfranz, Patricia J. [Reprint author]; Beckerle, Mary C. [Reprint author]

CS Department of Biology and Huntsman Cancer Institute, University of Utah,

2000 East Circle of Hope, Salt Lake City, UT, 84112-5550, USA

mary.beckerle@hci.utah.edu

SO Current opinion in Cell Biology, (February, 2002) Vol. 14, No. 1, pp. 88-103. print.

CODEN: COCBE3. ISSN: 0955-0674.

DT Article

General Review; (Literature Review)

LA English

ED Entered STN: 6 Feb 2002

Last Updated on STN: 26 Feb 2002

L2 ANSWER 6 OF 16 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

AN 2000-10590 BIOTECHDS

TI Nucleic acid coding for human \*\*\*semaphorin\*\*\* - \*\*\*6A\*\*\* - \*\*\*1\*\*\*  
used as diagnostic agent, therapeutic agent, for modulating immune  
system, in gene therapy or for effecting differentiation, cytoskeletal

stabilization and/or plasticity;  
 plasmid-mediated recombinant protein gene transfer  
 AU Behl C; Klostermann A  
 PA Max-Planck-Soc.  
 LO Munich, Germany.  
 PI WO 2000031252 2 Jun 2000  
 AI WO 1999-EP9215 26 Nov 1999  
 PRAI EP 1998-122441 26 Nov 1998  
 DT Patent  
 LA English  
 OS WPI: 2000-400065 [34]

L2 ANSWER 7 OF 16 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 5  
 AN 2001:61173 BIOSIS  
 DN PREV200100061173  
 TI The orthologous human and murine \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* -  
 \*\*\*1\*\*\* proteins (SEMA6A-1/Sema6A-1) bind to the enabled/vasodilator-  
 stimulated phosphoprotein-like protein (EVL) via a novel carboxyl-terminal  
 zyxin-like domain.  
 AU Klostermann, Andreas; Lutz, Beat; Gertler, Frank; Behl, Christian [Reprint  
 author]  
 CS Independent Research Group Neurodegeneration, MPI of Psychiatry,  
 Kraepelinstrasse 2, 80804, Munich, Germany  
 chris@mpipsy.kl.mpg.de  
 SO Journal of Biological Chemistry, (December 15, 2000) vol. 275, No. 50, pp.  
 39647-39653. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DT Article  
 LA English  
 OS Genbank-AF28866  
 ED Entered STN: 31 Jan 2001  
 Last Updated on STN: 15 Feb 2002

L2 ANSWER 8 OF 16 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN AAY71461 peptide DGENE  
 TI Nucleic acid coding for human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\*  
 used as diagnostic agent, therapeutic agent, for modulating immune  
 system, in gene therapy or for effecting differentiation, cytoskeletal  
 stabilization and/or plasticity -  
 IN Behl C; Klostermann A  
 PA (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.  
 PI WO 2000031252 A1 20000602 53p  
 AI WO 1999-EP9215 19991126  
 PRAI EP 1998-122441 19981126  
 DT Patent  
 LA English  
 OS 2000-400065 [34]  
 CR N-PSDB: AAD01234  
 DESC Binding domain of human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\* .

L2 ANSWER 9 OF 16 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN AAY71460 Protein DGENE  
 TI Nucleic acid coding for human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\*  
 used as diagnostic agent, therapeutic agent, for modulating immune  
 system, in gene therapy or for effecting differentiation, cytoskeletal  
 stabilization and/or plasticity -  
 IN Behl C; Klostermann A  
 PA (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.  
 PI WO 2000031252 A1 20000602 53p  
 AI WO 1999-EP9215 19991126  
 PRAI EP 1998-122441 19981126  
 DT Patent  
 LA English  
 OS 2000-400065 [34]  
 CR N-PSDB: AAD01233  
 DESC Human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\* .

L2 ANSWER 10 OF 16 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN AAD01234 DNA DGENE  
 TI Nucleic acid coding for human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\*  
 used as diagnostic agent, therapeutic agent, for modulating immune  
 system, in gene therapy or for effecting differentiation, cytoskeletal  
 stabilization and/or plasticity -  
 IN Behl C; Klostermann A  
 PA (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PI WO 2000031252 A1 20000602 53p  
 AI WO 1999-EP9215 19991126  
 PRAI EP 1998-122441 19981126  
 DT Patent  
 LA English  
 OS 2000-400065 [34]  
 CR P-PSDB: AAY71461  
 DESC DNA encoding binding domain of human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* -  
 \*\*\*1\*\*\*

L2 ANSWER 11 OF 16 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN AAD01233 DNA DGENE  
 TI Nucleic acid coding for human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\*  
 used as diagnostic agent, therapeutic agent, for modulating immune  
 system, in gene therapy or for effecting differentiation, cytoskeletal  
 stabilization and/or plasticity -

IN Behl C; Klostermann A  
 PA (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.  
 PI WO 2000031252 A1 20000602 53p  
 AI WO 1999-EP9215 19991126  
 PRAI EP 1998-122441 19981126  
 DT Patent  
 LA English  
 OS 2000-400065 [34]  
 CR P-PSDB: AAY71460  
 DESC Human \*\*\*semaphorin\*\*\* \*\*\*6A\*\*\* - \*\*\*1\*\*\* cDNA.

L2 ANSWER 12 OF 16 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF288666 GenBank (R)  
 GenBank ACC. NO. (GBN): AF288666  
 GenBank VERSION (VER): AF288666.1 GI:11093908  
 CAS REGISTRY NO. (RN): 301990-09-0  
 SEQUENCE LENGTH (SQL): 3018  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Rodents  
 DATE (DATE): 11 Dec 2000  
 DEFINITION (DEF): Mus musculus axon guidance signal SEMA6A1 mRNA,  
 complete cds.  
 SOURCE:  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 774 a 859 c 744 g 641 t  
 REFERENCE:  
 1 (bases 1 to 3018)  
 AUTHOR (AU): Klostermann,A.; Lutz,B.; Gertler,F.; Behl,C.  
 TITLE (TI): The orthologous human and murine \*\*\*semaphorin\*\*\*  
 \*\*\*6A\*\*\* - \*\*\*1\*\*\* proteins (SEMA6A-1/Sema6A-1)  
 bind to the enabled/vasodilator-stimulated  
 phosphoprotein-like protein (EVL) via a novel  
 carboxyl-terminal zyxin-like domain  
 JOURNAL (SO): J. Biol. Chem., 275 (50), 39647-39653 (2000)  
 OTHER SOURCE (OS): CA 134:189679  
 REFERENCE:  
 2 (bases 1 to 3018)  
 AUTHOR (AU): Klostermann,A.; Behl,C.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (21-JUL-2000) Independent Research Group  
 Neurodegeneration, MPI of Psychiatry, Kraepelinstrasse  
 2-10, Munich 80804, Germany

FEATURES (FEAT):  

| Feature Key | Location | Qualifier  |
|-------------|----------|--|
| source      | 1..3018  | /organism="Mus musculus"<br>/db-xref="taxon:10090"<br>/tissue-type="brain"   |
| CDS         | 1..3018  | /codon-start=1<br>/product="axon guidance signal<br>SEMA6A1"<br>/protein-id="AAG29494.1"<br>/db-xref="GI:11093909"<br>/translation="MRPAALLLCLTLLHCAGAGF<br>PEDSEPIISHGNYTKQYPVFVGH<br>KPGRNTTQRHRLDIQMIMMNRPLYVAARDHIYT<br>VDIDTSHTEEIYCSKKLTWKSQA" |

DVDTCRMKGKHKDECHNFIKVLKKNDLTLFVCG  
TNAFNPSCRNYRVDLTLETFGDEFS  
GMARCPYDAKHVNIALFADGKLYSATVTDFLAID  
AVIYRSPGDSPTLRTVKHDSKWLK  
EPYFVQAVDYGDIYFFFREIAVEYNTMGKVVP  
RVAQVCKNDMGGSQRVLEKQWTSF  
LKARLNCSVPGDSHFYFNILQAVTDVIRINGRDV  
VLATFSTPYNSIPGSAVCAYDMLD  
IADVFTGRFKEQKSPDSTWTPVDERVPKPRPGC  
CAGSSSLEKYATSNEFPDDTLNFI  
KTHPLMDEAVPSIINRPWFLRTMVRYRLTKIAVD  
NAAGPYQNHTVVFLEEMNVYNPEK  
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PLGR CERHGKCKKTCIASRDPYCG  
WVRESGSCAHLSPLSRLTFEQDIERGNTDGLGDC  
HNSFVALNGHASSLYPNTTSDSA  
SRDGYESRGMMLDWNLLLEAPGSTDPLGAVSSH  
HQDKKGVIRESYLKSNDQLVPVTL  
LAIIVILAFVMGAVFSGIIVYCVCDHRRKDVAVV  
RRKEKELTHSRGSMSSVSELSGL  
FGDTQSKDPKPEAILTPLMHNGKLATSSNTAKML  
IKADQHHLDTALPTPESTPTLQQ  
KRKPNRGSREWERNQNIINACTKDMPPMGSPVIP  
TDLPLRASPSHIPSVVLPITQQG  
YQHEYVDQPKMSEVVAQMALEDQAATLEYKTKE  
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YKRSYPTNSLTRSHQTTTLKRNT  
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SEQUENCE (SEQ):

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| 61   | cc   | ag  | aa   | ga    | att | cc   | ga  | gccaat     | cagtatttcg | catggcaact | ata        | ca   | aa   | aa   | ca         | gtat | cc | gg  | gtg  |
| 121  | ttt  | gt  | gg   | gg    | cc  | aca  | ag  | ccag       | acggaacacc | acgcagaggc | acag       | gc   | tg   | ga   | catccagatg | tact | gt | tt  | gat  |
| 181  | at   | cat | gat  | ca    | tga | ac   | aga | aac        | cctctacgtt | gctgctcgag | accatattta | tact | gt   | tt   | gat        | gaa  | at | ct  | aga  |
| 241  | at   | ag  | ac   | ac    | at  | ccc  | ac  | ac         | aga        | agaaatttac | aact       | ga   | cat  | g    | gaaatctaga | tc   | ac | aa  | ctc  |
| 301  | ca   | gg  | ct   | ga    | cg  | tag  | ac  | ac         | at         | g          | gg         | aa   | ac   | ata  | aggatgaatg | tc   | ac | aa  | ctc  |
| 361  | att  | aa  | ag   | ttc   | tt  | ct   | ca  | ag         | aa         | gaatgatgat | ac         | gc   | tg   | ttg  | tctgtggaac | ca   | at | gc  | ctc  |
| 421  | aa   | cc  | ct   | tc    | ct  | gc   | aga | aa         | cta        | cagggctgat | ac         | ct   | tg   | g    | aa         | ta   | tt | ta  | gc   |
| 481  | gg   | aa  | tg   | gcc   | a   | gat  | gc  | cc         | cta        | tgatgccaaa | cat        | gt   | ca   | aca  | tc         | gc   | ct | gt  | t    |
| 541  | aa   | act | ct   | tact  | cg  | gc   | tac | agt        | gactgacttt | ctggccattg | at         | gc   | gg   | t    | cat        | tt   | ac | ag  | gag  |
| 601  | ccc  | g   | g    | ag    | aca | gcc  | t   | acc        | ct         | caggactgtc | aag        | cat  | gatt | caa  | ag         | t    | gg | tt  | c    |
| 661  | tac  | ttt | gt   | tc    | aag | cc   | gt  | gga        | ttatggggac | tatatctact | tctt       | ct   | tc   | ag   | agaaattgca | ct   | gt | aa  | aat  |
| 721  | gt   | aga | ata  | ca    | ac  | act  | at  | ggg        | aaaggttgtt | ttccctaggg | tg         | gc   | t    | agg  | ct         | gt   | aa | aat |      |
| 781  | ga   | cat | ggg  | ag    | gg  | t    | ct  | cag        | ag         | agcctggag  | aag        | cat  | gg   | ga   | catctttcct | ga   | ag | gc  | t    |
| 841  | ct   | ga  | act  | gct   | cg  | gt   | gc  | ct         | gg         | agactctcat | ttttatttca | at   | ata  | ct   | cca        | gg   | ca | gt  | t    |
| 901  | ga   | tg  | t    | gattc | gc  | atta | aat | gg         | ccgtgatgtt | gtcttg     | gcaa       | cc   | ttt  | tc   | ac         | ac   | ct | ta  | aa   |
| 961  | ag   | cat | ccc  | ag    | ag  | ga   | ac  | agaa       | atcacctgac | tctac      | ct         | gga  | cacc | gc   | tt         | ag   | ca | ac  | ga   |
| 1021 | ggg  | ag  | gt   | ttca  | cc  | ag   | gg  | ccag       | ctgtt      | gt         | gct        | g    | g    | g    | at         | at   | g  | ca  | acc  |
| 1081 | gt   | cc  | cta  | agc   | tt  | ccc  | g   | at         | ga         | tacc       | ct         | ga   | ac   | tt   | cat        | ta   | ag | ga  | g    |
| 1141 | t    | cca | at   | gag   | t   | cc   | at  | cat        | caa        | cag        | ac         | ct   | tg   | g    | g          | g    | g  | g   | g    |
| 1201 | gc   | ag  | t    | gc    | ctt | cc   | at  | cat        | caa        | cg         | ct         | g    | cc   | gg   | g          | g    | g  | g   | g    |
| 1261 | ac   | ca  | aa   | aat   | tg  | cat  | ga  | g          | acaa       | cc         | ag         | aaa  | ag   | tg   | ca         | g    | g  | g   | g    |
| 1321 | ga   | gg  | ag   | at    | ga  | at   | gt  | tt         | acaa       | cc         | ag         | ag   | cg   | g    | g          | g    | g  | g   | g    |
| 1381 | at   | cat | ggg  | ca    | tgc | ag   | ct  | cga        | cagagcgag  | ggctcactct | at         | gt   | t    | g    | cat        | ct   | ct | act | gt   |
| 1441 | gt   | ga  | t    | ca    | agg | tg   | cc  | t          | ct         | gg         | cg         | at   | gg   | ga   | ag         | t    | g  | ta  | aaaa |
| 1501 | gc   | ct  | cc   | ag    | ag  | ac   | cc  | g          | attg       | tgggtgggta | ag         | gg   | g    | aa   | ag         | t    | g  | g   | g    |
| 1561 | ccc  | ct  | t    | ag    | ca  | gact | g   | ac         | att        | tgagcaggac | att        | g    | ag   | cg   | t          | g    | ca | gg  | cc   |
| 1621 | gact | gt  | caca | att   | cc  | tt   | ct  | gc         | g          | ggcactgaat | ggg        | ca   | gc   | cca  | gtt        | cc   | ct | ct  | a    |
| 1681 | act  | ac  | gt   | cag   | att | cg   | gc  | at         | c          | ccgagagcgg | ct         | g    | ag   | gc   | g          | g    | g  | g   | g    |
| 1741 | aac  | g   | ac   | ct    | gc  | tc   | g   | ag         | gc         | acc        | tg         | gc   | ag   | ca   | ca         | ct   | ct | ca  | ta   |
| 1801 | cac  | c   | ag   | g     | aca | aga  | ag  | gg         | gag        | gattcgggaa | ag         | tt   | ac   | ct   | ca         | aa   | ag | ca  | ac   |
| 1861 | c    | ct  | gt   | c     | ac  | cc   | tc  | ct         | gg         | ccat       | tg         | ca   | gt   | c    | att        | ct   | gg | gg  | g    |
| 1921 | gg   | cat | cat  | cg    | tg  | t    | at  | t          | gt         | gtgcgatcac | cg         | gc   | g    | caa  | ag         | ac   | gt | gg  | c    |
| 1981 | a    | ag  | g    | aga   | aa  | ag   | ct  | c          | act        | ca         | ct         | gc   | gc   | tc   | gg         | at   | ct | at  | ga   |
| 2041 | gg   | cc  | ct   | ct    | ttg | gg   | g   | ac         | ac         | cca        | gt         | cc   | aa   | gc   | ct         | g    | g  | g   | g    |
| 2101 | at   | g   | ca   | ca    | ac  | g    | ca  | ag         | ct         | ggc        | ca         | gc   | ct   | ag   | c          | at   | ca | ag  | g    |
| 2161 | ca   | g   | cat  | c     | ac  | tag  | ac  | ct         | c          | ac         | gc         | cc   | ct   | g    | ccc        | ct   | g  | ca  | g    |
| 2221 | aa   | ac  | g    | ga    | aa  | cc   | a   | cc         | g          | cg         | gc         | g    | ag   | g    | g          | g    | g  | g   | g    |
| 2281 | tg   | ca  | ca   | ag    | g   | ac   | at  | gc         | ct         | cc         | cat        | gg   | g    | tt   | cc         | ct   | g  | g   | t    |
| 2341 | gc   | ct  | cccc | aa    | gcc | ac   | at  | cccc       | cagcgtgg   | g          | tc         | ct   | g    | cccc | tc         | ac   | g  | ca  | g    |
| 2401 | c    | ac  | g    | at    | ac  | tag  | at  | ca         | g          | cc         | aaa        | at   | g    | ac   | cc         | ag   | gt | g   | g    |
| 2461 | ca   | gg  | ct   | g     | cca | cc   | ct  | g          | ga         | ta         | aa         | g    | ac   | cc   | aa         | ag   | g  | ta  | g    |
| 2521 | cat  | g   | gg   | g     | gt  | ga   | ac  | ct         | g          | ga         | ac         | ct   | g    | ga   | ac         | ct   | g  | ga  | ac   |

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2581 gcctccctag gtcccccgga aacctcactg tcacagaccg gcctgagcaa gaggctggag
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2761 cacctctcca ggaaccagag ctttggccgg ggagacaacc cccccccgc cccgcagcgg
2821 gtggactcta tccaggtgca cagctcccag ccctctggcc aggccgtgac tgtttcagg
2881 cagcccagcc tcaatgccta caactcactg acgaggctcg ggctgaagcg caccctctcg
2941 ctaaagcctg atgtaccccc caaaccttcc ttgtctcccc ttccacatc catgaagccc
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```

L2 ANSWER 13 OF 16 GENBANK.RTM. COPYRIGHT 2004 on STN

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LOCUS (LOC):                AF279656      GenBank (R)
GenBank ACC. NO. (GBN):    AF279656
GenBank VERSION (VER):     AF279656.1   GI:11093650
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SEQUENCE LENGTH (SQL):     3862
MOLECULE TYPE (CI):        mRNA; linear
DIVISION CODE (CI):        Primates
DATE (DATE):               11 Dec 2000
DEFINITION (DEF):          Homo sapiens semaphorin SEMA6A1 mRNA, complete cds.
SOURCE:                     human.
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                             Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                             Hominidae; Homo
NUCLEIC ACID COUNT (NA):    971 a      1111 c      967 g      813 t
REFERENCE:                   1 (bases 1 to 3862)
  AUTHOR (AU):               Klostermann,A.; Lutz,B.; Gertler,F.; Behl,C.
  TITLE (TI):                The orthologous human and murine ***semaphorin***
                             ***6A*** - ***1*** proteins (SEMA6A-1/Sema6A-1)
                             bind to the enabled/vasodilator-stimulated
                             phosphoprotein-like protein (EVL) via a novel
                             carboxyl-terminal zyxin-like domain
  JOURNAL (SO):              J. Biol. Chem., 275 (50), 39647-39653 (2000)
  OTHER SOURCE (OS):         CA 134:189679
REFERENCE:                   2 (bases 1 to 3862)
  AUTHOR (AU):               Klostermann,A.; Lutz,B.; Gertler,F.; Behl,C.
  TITLE (TI):                Direct Submission
  JOURNAL (SO):              Submitted (19-JUN-2000) Independent Research Group
                             Neurodegeneration, MPI of Psychiatry, Kraepelinstrasse
                             2-10, Munich 80804, Germany

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DIVISION CODE (CI): Patent  
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DEFINITION (DEF): Sequence 6 from Patent WO0031252.  
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NUCLEIC ACID COUNT (NA): 971 a 1111 c 967 g 813 t  
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JOURNAL (SO): Patent: WO 0031252-A 6 02-JUN-2000; KLOSTERMANN ANDREAS  
(DE); MAX PLANCK GESELLSCHAFT (DE); BEHL CHRISTIAN  
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SEQUENCE LENGTH (SQL): 216  
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 DATE (DATE): 16 Sep 2000  
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 AUTHOR (AU): Klostermann,A.; Behl,C.  
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 as a potential drug target  
 JOURNAL (SO): Patent: WO 0031252-A 3 02-JUN-2000; KLOSTERMANN ANDREAS  
 (DE) ; MAX PLANCK GESELLSCHAFT (DE) ; BEHL CHRISTIAN  
 (DE)

| FEATURES (FEAT): | Feature Key | Location | Qualifier  |
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L2 ANSWER 16 OF 16 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX026741 GenBank (R)  
 GenBank ACC. NO. (GBN): AX026741  
 GenBank VERSION (VER): AX026741.1 GI:10187886  
 CAS REGISTRY NO. (RN): 390282-36-7  
 SEQUENCE LENGTH (SQL): 3093  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Patent  
 DATE (DATE): 16 Sep 2000  
 DEFINITION (DEF): Sequence 1 from Patent W00031252.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
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 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 813 a 855 c 765 g 660 t  
 REFERENCE: 1 (bases 1 to 3093)  
 AUTHOR (AU): Klostermann,A.; Behl,C.  
 TITLE (TI): Human \*\*\*semaphorin\*\*\* \*\*\*6a\*\*\* - \*\*\*1\*\*\*  
 (sema6a-a), a gene involved in neuronal development and  
 regeneration mechanisms during apoptosis, and its use  
 as a potential drug target  
 JOURNAL (SO): Patent: WO 0031252-A 1 02-JUN-2000; KLOSTERMANN ANDREAS  
 (DE) ; MAX PLANCK GESELLSCHAFT (DE) ; BEHL CHRISTIAN  
 (DE)

| FEATURES (FEAT): | Feature Key | Location | Qualifier   |
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